

We measure it.



## Data sheet

# Thermal imager

**testo 869 – thermal imager for every toolbox.**



---

Infrared resolution 160 x 120 pixels

---

Thermal sensitivity <120 mK

---

Fixed focus 34° lens

---

Automatic recognition of hot-cold spots

---

Infrared JPEG images

---

The testo 869 thermal imager was specifically developed in collaboration with experts from heating engineering, the building trade, facility management and maintenance to meet your requirements – for example to detect leaks, to pinpoint thermal bridges or to visualize overheated connections. Its large display, high-quality detector, wide field of view and simple operation will enable you to

work better, quicker and more productively. It combines high infrared performance with easy operation, at an unbeatable price. The result: the new testo 869 makes high-quality thermography affordable for everyone, and belongs in every toolbox.

## Technical data

| Infrared image output                           |                                                  |
|-------------------------------------------------|--------------------------------------------------|
| Infrared resolution                             | 160 x 120 pixels                                 |
| Thermal sensitivity (NETD)                      | <120 mK at +30 °C                                |
| Field of vision/min. focusing distance          | 34° x 26° / <0.5 m (fixed focus)                 |
| Geometric resolution (IFOV)                     | 3.68 mrad                                        |
| Image refresh rate                              | 9 Hz                                             |
| Focus                                           | Fixed focus                                      |
| Spectral range                                  | 7.5 to 14 µm                                     |
| Image presentation                              |                                                  |
| Image display                                   | 3.5" LCD with 320 x 240 pixels                   |
| Display options                                 | IR image only                                    |
| Colour palettes                                 | 4 (iron, rainbow HC, cold-hot, grey)             |
| Measurement                                     |                                                  |
| Measuring range                                 | -20 to +280 °C                                   |
| Accuracy                                        | ±3 °C, ±3 % of m.v.                              |
| Emissivity / reflected temperature compensation | 0.01 to 1 / manual                               |
| Measurement functions                           |                                                  |
| Analysis functions                              | Mean point measurement hot/cold spot recognition |
| Imager equipment                                |                                                  |
| Lens                                            | 34° x 26°                                        |
| Save JPEG                                       | ✓                                                |
| Fullscreen mode                                 | ✓                                                |

| Image storage                        |                                                                                                |
|--------------------------------------|------------------------------------------------------------------------------------------------|
| File format                          | .bmt and .jpg; export options in .bmp, .jpg, .png, .csv, .xls                                  |
| Memory                               | Internal storage (1.6 GB / >2000 images)                                                       |
| Power supply                         |                                                                                                |
| Battery type                         | Li ion rechargeable battery exchangeable on site                                               |
| Operating time                       | 4 hours                                                                                        |
| Charging options                     | In instrument/in charging station                                                              |
| Mains operation                      | yes                                                                                            |
| Ambient conditions                   |                                                                                                |
| Operating temp. range                | -15 to +50 °C                                                                                  |
| Storage temp. range                  | -30 to +60 °C                                                                                  |
| Air humidity                         | 20 to 80 %RH, not condensing                                                                   |
| Housing protection class (IEC 60529) | IP54                                                                                           |
| Vibration (IEC 60068-2-6)            | 2G                                                                                             |
| Physical features                    |                                                                                                |
| Weight                               | 550 g                                                                                          |
| Dimensions (LxWxH)                   | 219 x 96 x 95 mm                                                                               |
| housing                              | PC - ABS                                                                                       |
| PC software                          |                                                                                                |
| System requirements                  | Windows XP (Service Pack 3), Windows Vista, Windows 7 Windows 8, Windows 10 interface: USB 2.0 |
| Standards, tests, warranty           |                                                                                                |
| EU Directive                         | 2004 / 108 / EC                                                                                |
| Warranty                             | 2 years                                                                                        |

## Ordering data and accessories

|                                                                                                                                 | Order no. |  |
|---------------------------------------------------------------------------------------------------------------------------------|-----------|--|
| <b>testo 869 thermal imager</b> including Pro software, USB cable, mains unit and Li-ion rechargeable battery.                  | 0560 8690 |  |
| High-quality transport case                                                                                                     | 0516 8700 |  |
| Holster case                                                                                                                    | 0554 7808 |  |
| Additional battery. Additional lithium ion rechargeable battery for extending the operating time.                               | 0515 5100 |  |
| Battery charging station. Table charging station for optimising the charge time.                                                | 0554 1103 |  |
| Emission tape. Adhesive tape e.g. for shiny surfaces (roll, L.: 10 m, W.: 25 mm), ε = 0.95, temperature-resistant up to +250 °C | 0554 0051 |  |